## EXHIBIT "9"

Case 01-01139-AMC

Doc 6346-10 Filed 09/09/04 Page 2 of 19

P. O. BOX 200 CAMBRIDGE, MA 02140 617-864-5520

Massachusetts Bay Transportation Authority

58 Day Street

Somerville, MA 02140

July 1, 1981 A-601-747-67

Attention: Mr. John Carey

RE:

Perini Corporation - Job 747 Alewife Station/Garage/Tunnel

Cambridge, MA 02140 MBTA Contract 091-601

Subject:

Release of Acid Sludge Area To 091-601 Contractor Special Provisions

(SP-24) Section 3 Construction Phasing, Paragraph F.

## Gentlemen:

We draw your attention to the above subject release of Acid Sludge Area as stated in the Contract. It appears that this area is not completely backfilled and ready to be released to us on this date as specified by the Contract. We are awaiting your written direction to proceed with our survey and layout work in this area and that all the Acid Sludge has been removed and the area and ground water is safe for our personnel to work in and around.

We have observed that the ground water which is entering our presently excavated Slurry Wall section is brownish in color and does not appear to be clean.

Please assure us that this situation does not present any immediate or long term dangers to our employees working in this area or deleterious to concrete.

We will await your written advise on this matter.

Very truly yours,

PERINI CORPORATION

Garry P. Balboni

Administrative Manager

GPB/dea

cc: D.C. Malone

C.J. McDermott

J.W. Bertonazzi

J.E. Mullin

File

F.M. Keville - MBTA

G.W. Murphy - MBTA



> August 8, 1981 A-601-747-81

Massachusetts Bay Transportation Authority 58 Day Street Somerville, MA 02145

Attention: Mr. John Carey

RE:

Perini Corporation - Job 747 Alewife Station/Garage/Tunnel

Cambridge, MA 02140 MBTA Contract 091-601

Subject:

Delays in the Release of Acid Sludge Area at W.R. Grace Property

## Gentlemen:

Please refer to our letter Number A-601-747-67 dated July 1, 1981 concerning the delay in the release of the Acid Sludge east of Alewife Brook Parkway. Please be informed that this delay is severly impacting the progress of this project.

We have not received any response to our above mentioned letter informing us when this area will be turned over to us so that we may continue and plan our operations. Our Slurry Wall operation is being severly impacted by this delay.

We intend to request an extension of time and additional cost to compensate us for this delay which has created extra work for us.

We are still awaiting your written direction to proceed with our work in this area upon removal of the Soil Tek Equipment.

Very truly yours,

PERINI CORPORATION

Garry P/Balboni Administrative Manager

GPB/dea

cc: F.M. Keville

G.W. Murphy

D.C. Malone

C.J. McDermott J.W. Bertonazzi

J.E. Mullin

File



> August 24, 1981 A-601-747-91

Massachusetts Bay Transportation Authority 58 Day Street Somerv811e, MA 02144

Attention: Mr. John Carey

RE:

Perini Corporation - Job 747 Alewife Station/Garage/Tunnel

Cambridge, MA 02145 MBTA Contract 091-601

Subject:

Employee Complaints of Contaminated Materials

## Gentlemen:

Please be informed that on Thursday, August 20, 1980 our employees working on the east side of Alewife Brook Parkway adjacent to the W. R. Grace Plant complained of facial burns, dryness of the eyes, nose, and mouth. One employee left work and was treated by a Doctor at Tufts Medical Center for Chemical Burns of the face and mouth. META Resident Engineers were informed of this situation and a meeting was set up between officials of Perini and W. R. Grace Industrial Hygenist, Mr. Paul Connor at 1:30 p.m. Thursday. It was agreed at that meeting that W.R. Grace Industrial Hygenists would discuss the situation with Perini employees at 9:00 a.m. on Friday morning. Subsequent to the meeting, we were informed by W. R. Grace that they refused to meet with our employees on Friday.

The Authority was informed of this change in position on Friday morning. Later during the morning of August 21st we were informed that W. R. Grace reconsidered after discussions with MBTA Attorneys. A meeting with our employees, Safety Officials, Managers and the Authority's Field Personnel was re-scheduled for 2:00 p.m. at the site behind W. R. Grace's Plant No. 27.

At noon on Friday, our employees again made serious complaints about unsafe working conditions in the area mentioned above. Perini Ironworkers refused to return to work in the affected area on Friday afternoon.

The meeting was held as scheduled with W. R. Grace at 2:00 pm. Mr. Tom Hamilton and Mr. Paul Connor both Industrial Hygenists along with the W. R. Grace Plant Manager came to discuss the situation. After a brief discussion of the Plant Process of making Concrete Additives (Water Reducing Agents) and the chemicals used in that process Sulfuric Acid, Formaldehyde and Naphthalene, the discussion turned to the Acid Sludge processing done by Solid-Tek.

August 24, 1981 Page 2 of 2

The W. R. Grace officials did not know if the treated material had been tested or if they were safe to work around when airbourne. When the discussion became unruley, it was mutually decided by Mr. George Murphy of the MBTA, Mr. Bill Bertonazzi, Mr. Russell Mattson and Mr. Garry Balboni of Perini to end this meeting and to inform the group that Perini would take immediate steps to inform OSHA of the situation and to wet down the Acid Sludge Stock Piles.

We will purchase the necessary equipment and materials and install on Saturday, August 22, 1981 a watering system to wet down the two Stockpiles and the Drying Ponds to alleviate this airbourne material.

We are taking further steps to sample and test this material and the ground at different elevations to determine if any additional contaminated material is still remaining. This testing will be done by an Independent Chemical Testing Laboratory. Further, OSHA will be on the site on Monday, August 24, 1981 to sample and test this material to determine if it is safe to work around.

In the event that our construction operations are delayed due to this situation, we will request a reasonable extension of time and compensation for this delay.

We expect payment for the emergency measures which we are taking as described above to alleviate this potentially dangerous situation.

We request that you recall your consultants who inspected this material to confirm or refute our findings as soon as possible.

We hope we can resolve this situation without costly delays to the Project and the Authority.

Very truly yours,

PERINI CORPORATION

Administrative Manager

GPB/dea

cc: D. C. Malone

I. R. Huie

C. J. McDermott

J. W. Bertonazzi

J. E. Mullin

R. Mattson

J. Ferer

F. M. Keville

G. W. Murphy File



Massachusetts Bay Transportation Authority 58 Day Street

August 25, 1981 A-601-747-92

Somerville, MA 02144

Attention: Mr. John Carey

RE:

Perini Corporation - Job 747 Alewife Station/Garage/Tunnel

Cambridge, MA 02144 MBTA Contract 091-601

Subject:

Delays to the Project Caused by Contaminated Material

Gentlemen:

Please be informed that our employees have refused to work on the east side of Alewife Brook Parkway due to serious health related problems they are experiencing since exposure last week as outlined in our letter No. A-601-747-91.

An OSHA Industrial Hygenist is currently on site to monitor our sampling of soil materials and to take samples of air to be analyzed by OSHA Laboratories in Salt Lake City.

Soil samples which we have obtained will be analyzed by Energy Resources Company Laboratory in Cambridge. Information should be available within one week from date of sampling.

We are taking steps, presently to completely cover the Stockpiles of processed Solidified Sludge south of the W. R. Grace Plant to help seal off Naphthelene odors.

We expect full reinbursement for any and all cost which we incur as a result of this situation.

We will keep you informed as to the outcome of our testing. We request that a meeting be set up between all parties concerned to discuss this matter immediately.

Very truly yours,

PERINI CORPORATION

Garry P. Balboni

Administrative Manager

GPB/dea

cc: F.M. Keville

G.W. Murphy

I.R. Huie

D.C. Malone

C.J. McDermott

J.W. Bertonazzi R. Mattson

Forer



> September 1, 1981 A-601-747-98

Massachusetts Bay Transportation Authority 58 Day Street Somerville, MA 02144

Attention: Mr. John Carey

RE:

Perini Corporation - Job 747 Alewife Station/Garage/Tunnel

Cambridge, MA 02140 MBTA Contract 091-601

Subject:

Contaminated Soil & Groundwater in Area to be Excavated

## Gentlemen:

Please be advised that our sampling and testing of the underlying soils in the area east of Alewife Brook Parkway between stations 313 + 23 and 317 + 50 has confirmed that the material to be excavated contains high concentrations of Naphthalene and other organic compounds in addition to having a very low pH.

This situation is in strict contridiction to the Contract Specification Section 02200, Earthwork, Sub Section 1.04A, paragraph 6 which states, "Chemical waste and contaminated groundwater present from the beginning of the Contract to Alewife Brook Parkway (approximately station 318 + 00 to station 313 + 23) shall be removed by others prior to work in this area." (emphasis added)

Auger borings taken on August 21, 1981, to a depth of 32 feet below existing ground surface have been tested by an Independent Testing Laboratory and found to contain Naphthalene levels as high as 49.9 micro grams/grams (PPM) and pH as low as 4.6. This confirms the fact that the soil material below the Acid Sludge, previously removed by others, is also contaminated with chemical wastes.

September 1, 1981 Page 2 of 2

Please advise us how to proceed with the excavation and disposal of material in this area as soon as possible.

We will await your written direction in this matter.

Very truly yours,

PERINI CORPORATION

Administrative Manager

GPB/dea

F.M. Keville cc:

G.W. Murphy

I.R. Huie

D.C. Malone

C.J. McDermott J.W. Bertonazzi

J.E. Mullin

R. Mattson

J. Ferer

File

REDACTED

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THURSDAY, SEPTEMBER 3, 1981

## Fumes force T work halt

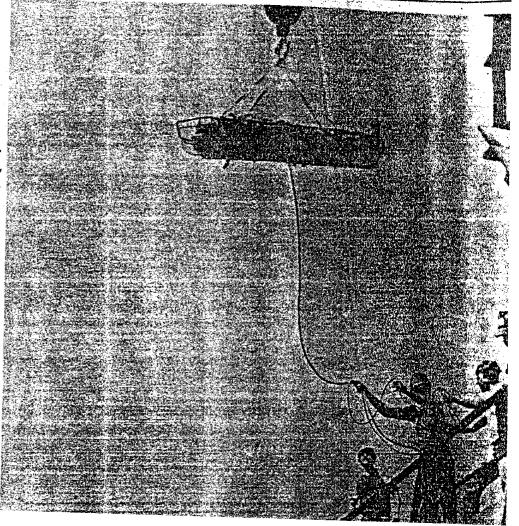
By Mac Margolis Chronicle Staff

Workers suffering headaches, nosebleeds, skin irritation and vomiting last week forced a halt to work on one section of the MBTA's Alewife station construction project in northwest Cambridge.

Although the cause of the sudden ailments is still under investigation, the symptoms are very similar to those reported for some time by a number of residents of the nearby quiet, tree-lined neighborhood adjacent to the T construction site and bounded by Alewife Brook Parkway and Rindge Avenue.

Most of the local residents have already

Most of the local residents have already concluded that the problem comes from "that factory over there," as Janice Starke of Seagrave Road, put it. That factory is the W. R. Grace Company, a chemical manufacturing plant on Whittemore Avenue, a stone's throw from Starke's house and the T's construction



## r and supplement to watertown (mass.) press, 5s.) Chronicle, and somerville (mass.) journal

## force work halt at Red Line extension

The state Department of Environmental Quality Engineering, also contacted by Perini, reportedly inspected the digging site and found three piles of naphthalene, a chemical substance used by the Grace company in the manufacturing process, nstruction site r the construcor Perini halted ob). Patterson

here were con-

they were exbway stop, the Line extension company ofthe source of erini has conormerly owned y is being conson said, "we been asked to e construction s complaint to Safety and

smells a lot like mothballs (in fact, it was Which, according to Janice Starke and like. In fact, Jaqui Mendez Diez, who lives Naphthalane is a pungent chemical that neighbors, is a lot like what the area around the Grace company plant smells down the street from Starke, is now cironce the main ingredient for mothballs). culating her second petition complaining about the odor, which she says has been in the air for years.

Cambridge City Councillor Thomas the irritating odor, which he says he can Danchy is another who is concerned about detect from his Richard Avenue home, a Danchy called this "a serious problem, that Grace is trying to minimize." third of the mile from the Grace factory.

> ment until the IA). An official

leted and the k air and soil

Mendez-Diez received a letter from a Grace company project manager dated June, 29 acknowledging the naphthalene smell and assuring her the company is time we will have resolved the odor pro-"hopeful that within a reasonable period of blems." She said that despite company statements the odor remains.

the symptoms reported by Perini workers Accordign to DEQE officials, the human reaction to naphthalene is consistent with and the area residents.

halation of naphthalene can induce The Merck Index, an encyclopedia of chemicals and drugs, says ingestion or inhepatic necrosis (kidney damage), convul-"nausea, vomiting, headaches, ...fever, sions and coma."

that "there are all kinds of manufacturing companies using all kinds of chemicals" in the area surrounding the Grace plant. He However, the Grace spokesperson noted said Grace this summer contracted a Georgia firm to solidify the naphthalene, which had been routinely dumped into a - a pond for liquid, in-"settling pond" dustrial waste.

Dredged and solidified, the naphthalene as DEQE finds a waste site. Naphthalene according to the Grace company spokesperson, will be carted away as soon was then placed into three large piles and does require "special handling," according to DEQE Sanitary Engineer Ed is not classified as a hazardous waste but Pawlowski.

Pawlowski said he toured ात प्रतास हार receiving complaints from resternis, "but was never cognizant of a strong odor." Both Pawlowski and the Grace spokesperson also said there were no complaints from factory workers who were involved and the surrounding area issu in solidifying the naphthalene.

But Pawlowski would not go no lan aş Grace officials who deny the company is culpable for the eder or the eliments reported by residents and workers in the (Grace)," he said 'But I woman't rule them out," vicinity.

## ge Hospital doctor

fessions, and the national COSSMHO membership. In addition to his medical training at the Harvard Medical School and his postgraduate training in inbridge and Massachusetts ternal medicine at the Cam-General Hospitals, Dr. Carrillo has also studied public health at the Harvard

The Hispanic community the long cuffered from the School of Public Health.

number of Hispanic health professionals is seen as a major means of overcoming the cultural and language barriers which impede access to health services for The health planning film was shot at various locations in Cambridge, at several of the Neighborhood Hispanics.

field. Increasing the

Hispanic film



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Health Centers, and at the

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By DAVIO FINK Staff Writer

mothballs is made, may be the irritating culprit that caused a halt in construction, work on one leg of the Naphthalene, the stuff of which MBTA's Red Line extension last week.

ing construction last Wednesday or Thursday, could be the cause of eye, nose, skin and throat irritation, nausea, vomiting, and nose bleeds suffered by mental Quality Engineering reported vesterday that three piles of the solidiied waste, apparently uncovered dur-The state Department of Environmost of 24 Perini Company workers on

The workers complained of ill health shortly after the T began a new leg of the extension project east of Alewife Brook Parkway and north of Rindge Avenue last Wednesday.

," said Perini vice president Charles J. Patterson. "Some went to the hospital throat and some reacted worse than othfor treatment and we immediately inflammation of the nose, eyes and "The men began complaining about thing at all since last Friday."

Shortly after the workers became III, Perini officials called the W.R. Grace Co., the chemical manufacturing conwhich the new leg of the Red Line ex-tension is being built. cern that formerly owned'the land on

Mario Favorito, counsel for the company's industrial chemicals group, said yesterday Grace safety and toxcology experts spoke to Perini officials and the afflicted workers.

"As far as we could see, there was no connection between their symptoms and any chemical operation on the prop-

subsequently inspected the site. At the erty," Favorito said.
But after the meeting, Perint officials got in touch with DEQE, which called the federal Occupational Safety and Health Administration, which took samw time, an employee anonymously

Yesterday, Mary Lou Mottola, a spókesman for DEQE, confirmed that the three piles uncovered by the digging amounted to 12,000 to 15,000 cubic yards of naphthalene, a substance that could easily cause the workers' symptoms. air samples.

sages, it will cause headaches and "If you inhale it and receive low do-

at high dosages, it could cause kidney "If you're exposed for longer periods att" And if you're exposed for long periods. ow dosage, it will cause eye irritation. nausea." Mottola said of naphthalene, problems."

searching for a site to dispose of the Thursday, DEQE, she added, was Mottola said the naphthalene piles had been re-covered with clean fill waste product.

vorito said it was possible the substance of last year at the request of the T had come from a Grace manufacturing been uncovered during the digging, Faoperation.

used as a raw material here," he said. . he analyzed "for some time." "I can confirm that naphthalene is "We don't make mothballs but it is used as a paint dispersant.'

suspended color particles in paint from " project. Paint dispersants, he said, prevent Mottola, of DEQE, said the pre-

would be wastes that would have to be removed to an approved landfill." Mottola said state and federal offi-

naphthalene or another chemical was the cause of the workers, health probto determine conclusively whether the

nd, similar to those at many chemicalion of the contralized within the contralized of the T. John Fiatarone, a federal safety of the contralized of t of the symptoms which Grace had deposite thing pond into which Grace had deposite the warre ste product.
Informed that the naphthalene had pond, similar to those at many chemicalogorems. Ioms, Initially, speculation on the causes of the symptoms had centered on a set-8 companies, were ncutralized within the ited chemical wastes over the years.

be analyzed "for some time."

A T. spokesman said the project S. shutdown would only be temporary and shutdown would only be temporary and sulfikely to delay the construction be taken last Monday would brobably no and health spokesman, said air semple

estimated to cost \$600 million, will rin statement conducted for the project in termination, point, through, Porte Brook Parkway near Rindge Avenu construction environmental impact's from Harvard Square, the line's curren 1977 and 1978 "said there probably Square to Davis Square in Somervill and on to the new terminus at Alewif and the Route 2 traffic circle.

## cton astir over

Page 11 of

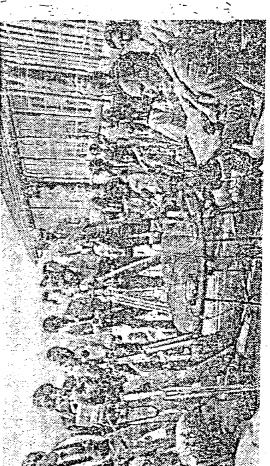
By JAMES CONNOLLY

Should police have awakened residents early yesterday morning to warn them of a potentially irritating pungent cloud of gas? Acton town officials will address that question next week.

meeting Tuesday night to hear from Selectmen have scheduled a special residents awakened by the call for voluntary evacuation after the leak of

Chris Jendras, spokesman for ti U.S. Environmental Protection Agenc said the leak was a "freak thing side the tank and a subsequent les caused by a heat-producing reaction i No injuries were reported.

She said the styrene, stored at a se tion of the plant where Grace former produced synthetic rubber, was tank with the "usual" safety cautions used by other companies from a safety valve.



## JI au



By David McKay Wilson

adge in the Red Line Extension's path seven leaching into the ground water." onths after MBTA (Mass. Bay Trane chemical waste of W. R. Grace and Com- sludge. inv at Alewife.

However, officials say tests, which are (DEQE) eastern regional caused it." ingineering ngineer, said DEQE has classified the organic naturial as "special waste," one which must e disposed of at a hazardous waste dump.

New England has no such dump and the learest one is in New York.

The estimated 30,000 cubic yards of sludge (a lump truck holds from seven-ten yarda) lles at he end of the proposed \$560 million Red Line Extension and borders the Alewife temporary terminus.

Sabin said Grace is responsible for removing the sludge. MBTA environmental officer Charles Steward said the MBTA will walt for for its industrial chemical and construction Grace to remove the sludge before purchasing product groups is located at Alewice, at the the land for the tunnel extension.

Sludge danger unknown

The Grace property is east of Alewife Brook Parkway near the B & M railroad tracks.

Lord said Grace might construct a disposal area on the site or truck it out-of-state. The on- strongly acidic. Acid that strong will ent site method would use a clay enclosure, either through the proposed 38-foot wide concrete above- or below-ground, Lord sald.

Just how dangerous the sludge is has yet to high sulfate level. determined. Lord said toxicology standards are not set for thousands of chemicals like those at the Grace compounds included.

is not hazardous. It may be nothing at all. But a neutralization lagoon the company used and

even if we determine it is not hazardous, we State and federal engineers have yet to still need a site for it. We're going to have to entify a highly-acidic, organic chemical have it removed to prevent it from further

Lord sent Grace a letter this month asking ortation Authority) consultants discovered for a reply by July about Grace's plans for the

Steward said ground water tests by Goldberg-Zoino-Dunnicliff (GZD) Associates inmost complete, show the sludge is too dicate the area's groundwater "has traces of angerous for ordinary landfill disposal. Sabin organic chemicals not normally found in the ord, Dept., of Environmental Quality environment. We assume that the sludge has

GZD studies show that the ground water, which moves about one foot a year, flows to the, Alewife Brook and eventually to the Mystic River, Cambridge Water Dept. chemist Karen Siegfriedt said there was no evidence the chemicals had entered the city's water supply. at Fresh Pond, just a third of a mile away.

W. R. Grace, a diversified multi-national corporation operating in 39 countries, is the nation's fifth largest chemical producer, according to Grace industrial relations spokeswoman Pat Jordan. Grace headquarters former Dewey and Almy Company site, which Grace purchased in 1954.

Grace attorney and company spokesman Allan Campbell would not comment.

Tests at the site show acid readings of PH 2 -

Grace: sludge harmless

DEQE, the U.S. Environmental Agency (EPA), the MBTA, and Grace are all testing "The sludge may in fact be hazardous, but it the material, which Campbell last February seems to be material we don't have actual said came from chemicals produced 10 to 15 toxicity data on," Lord said. "Grace claims it years ago. Campbell said the sludge came from

then covered over with earth. Campbell maintained then that any product now dumped on the site is neutral and is safe.

DEQE disagrees. Sabin said it instructed Grace to find a new way to dispose of its already-neutralized chemicals, which are periodically scooped from its present neutralization lagoon. Byproducts from the production of DAXAD, an industrial dispersing agent, are deposited into a rubber-lined outdoor lagoon filled with a neutralizing agent.

Grace then annually scoops out the neutralized chemical, which resembles sand, and deposits it on the Alewife countryside.

Dumping halted

Lord thinks some of the organic sludge may come from the neutralized sand dumping, which also contains organic chemicals from the lagoon. Buch and the

MBTA's Steward said "Think of a bottle of tho pickle juice, with sand in it. When you scoop out " the sand, the sand by itself is neutral, but the chemicals from the pickle brine might kill the grass. You are bound to take some of the brine with you."

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Lord told Grace officials they can no longer dump the wet sand on the property and wants to see the sand dried before it is disposed of. He said Grace had been cooperative and will devise a new system.

Although the sludge is 50 per cent organic and could be incinerated, Lord said the state has no incinerator suited for the job. The material could be treated with bacteria to neutralize it. subway tunnel, Steward said. Tests also show a but with the MBTA construction set to begin the Alewife within two years, Lord said the natural process would be too-time-consuming.

Trucking the chemicals to a hazardous dump ? !! site might work, if only the state had a place to dispose the sludge. The nearest site is upper New York State and the cost of transporting 30,000 cubic yards is prohibitive, Lord said.

"We could ship it out of state," Lord said, "but the sludge is rather liquid, and we'd have to line each truck with plastic, then hope it doesn't run out down Route 2."



|  | 'You Tell Me<br>Which Is A |      |     | Mar I    |        |  |
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| MARE & MODEL                               | Batt                       |      |     | 118!"    | INSIE  |  |
| CHEVROLET                                  |                            | 21   |     | 1243.75  | Taxis  |  |
| CHEVROLET<br>CAPRICE & cyl., 4 Dr.         | MOK.                       | 21   |     | \$813.73 |        |  |
| CHEVROLET<br>Mellou Classic, 8 cyl., 4 Dr. | <b>Similar</b>             | 18.1 |     | \$753.60 | Public |  |
| CHEYROLET  Nathu Classic, 8 cH., 4 Dr      |                            | 18.1 |     | 17.000   |        |  |
| TOYOTA CORONA<br>4 cgt., 4 dr.             | '5449                      | 17.2 | 319 | \$150.00 |        |  |
| TOYÓTA CRESSIDA<br>8 czt.** 4 dr.          | 18879                      | 16.1 | 268 | \$750.0a | Gradu  |  |
| DATSUN 810<br>4 cyl., 4 dr.                | '8519                      | 15.9 | 318 | 1178.00  |        |  |
| VW DASHER                                  | 17773                      | 11.9 | 238 |          |        |  |

Shardenda Shard

Sverdrup & Faicel and Associates, Inc. 225 Franklin Street Boston, Massachusetts 02110

Engineers Architects Planners

617-482-7880

September 22, 1981

Massachusetts Bay Transportation Authority 58 Day Street West Somerville, Massachusetts 02144

ATTENTION: Mr. John Carey

Gentlemen:

SUBJECT: MBTA/W. R. Grace Site Contamination Investigation

In response to the MBTA letter of July 9, 1981 to S&P and the MBTA authorization for S&P to pursue additional limited testing of air, soil, and water samples for the subject investigation, we herewith provide the following recommendations to protect construction workers from future skin irritations at the MBTA/W. R. Grace 091-601 construction site:

- Direct skin contact with the groundwater and sludge residues potentially present in the soil should be avoided by use of gloves and exercise of reasonable care. If hand or arm contact is limited to soil, then work gloves and long sleeves may provide adequate protection. On the other hand, if there is a potential for contact with very wet soil or groundwater, then long rubber gloves or gloves and rain gear will be needed to adequately protect against splashing and water penetration of clothing.
- o Rubber boots should be worn whenever there is mud or standing water.
- o Workers should avoid touching their faces or other exposed skin.
- Wash water should be immediately available at all times and used whenever a worker has been splashed or has skin contact with the soil or water.
- Hands must be washed before eating, drinking, smoking, using sanitary facilities, or leaving the site.
- o There should be no eating, drinking, or smoking in any excavated area.
- Face shields should be readily available and worn whenever there is a potential for splashing the face.

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Massachusetts Bay Transportation Authority Page 2 September 22, 1981

o Contact lenses should not be worn in the excavation area without the express approval of an eye care specialist.

Further protective measures may be required if additional chemical contaminants are identified. The effectiveness of the recommended measures is, of course, dependent upon conscientious adherence to them.

Possible causes for the symptoms of nose and throat irritation and nausea were not clearly identified in this limited program. These symptoms may be associated with inhalation of airborne chemical contaminants.

An additional water sample is being analyzed and the results will be forwarded as they are available. We are currently developing a comprehensive test program to detail the chemistry of the soil in the area. We will submit this proposed program as soon as it is developed.

A further air sampling procedure should be developed to monitor the air in the vicinity of the construction work especially during excavation. Ventilation of the excavation site and other pocket areas should be considered using fans until the monitoring program justifies otherwise. We would suggest the MBTA request the contractor submit a ventilation procedure with his excavation procedure. He should size fans as appropriate for excavation areas. The adequacy of the fans selected could be reviewed by the Authority. We will include air sampling and monitoring procedures in our further test program proposal.

Very truly yours,

SVERDRUP & PARCEL AND ASSOCIATES, INC.

E. J. J. Perko



> September 25, 1981 A-601-747-106

Massachusetts Bay Transportation Authority 58 Day Street Somerville, MA 02144

Attention: Mr. John Carey

RE:

Perini Corporation - Job 747 Alewife Station/Garage/Turnel

Cambridge, MA 02140 MBTA Contract 091-601

Subject:

Work Site East of Alwife Brook Parkway

Gentlemen:

We acknowledge receipt of your letter no. AS-601-57 dated Sept. 23, 1981.

It is apparent by your letter and the attached letter from Sverdrup & Parcel & Assoc. dated September 22, 1981, that your testing of soils and groundwater in the area east of Alewife Brook Parkway has determined that the material and groundwater are contaminated with chemicals which may be harmful to our employees working in and around the site.

The protective measures which your above referenced letter describes, concur with those previously recommended to us by the Industrial Hygenist retained by Perini to consult on this problem.

Please be informed that we feel all the added protective measures described in your letter are beyond the scope of this contract and we are entitled to additional compensation for them.

We will submit the extra cost of these measures when the full impact of this additional work is known.

We are still awaiting your written direction as to the condition and status of soil in this area, so that we may proceed with our work.

Very truly yours,

PERINI CORPORATION

Carry P./Balboni

Administrative Manager

PERO999

GPB/dea

cc: F.M. Keville

lle D.C. Malone

J. Dyer

C.J. McDermott

## REDACTED



P. O. BOX 200 CAMBRIDGE, MA 02140 617 - 864 - 5520

> October 23, 1981 A-601-747-116

Massachusetts Bay Transportation Authority 58 Day Street Somerville, MA 02145

Attention: Mr. John Carey

RE:

Perini Corporation - Job 747 Alewife Station/Garage/Tunnel

Cambridge, MA 02140 MBTA Contract 091-601

Subject:

Work Stoppage on East Side of Alewife Brook Parkway Due to

Contaminated Material

## Gentlemen:

Please be informed that as of October 26, 1981 all construction work has stopped on the east side of Alewife Brook Parkway on the above referenced project due to the contaminated material as yet unclassified by the Mass. Department of Environmental Quality Engineering and the MBTA.

As you are aware from earlier correspondence, the existing ground soil has been contaminated by Acid Sludge previously placed there by W. R. Grace Chemical Company. This situation has created delays and extra work for which we expect additional compensation for. We have now completed all Slurry Wall operations on the east side and stockpiled all excavated contaminated material on site.

We will await your consultants test results, DEQE classification of material, and your written direction on how to proceed in this area prior to remobilizing our operations on the east side.

Please inform us immediately on any further developments concerning this matter.

Very truly yours,

PERINI CORPORATION

GPB/dea

cc: F.M. Keville

J. Dyer

D.C. Malone C.J. McDermott

J.W. Bertonazzi

H. Haywood J.E. Mullins

arry P. Balboni Administrative Manager



> November 4, 1981 A-601-747-125

Massachusetts Bay Transportation Authority 58 Day Street Somerville, MA 02145

Attention: Mr. John Carey

RE:

Perini Corporation - Job 747 Alewife Station/Garage/Tunnel

Cambridge, MA 02140 MBTA Contract 091-601

Subject:

Delays to East Side of Project Caused by Contaminated

Soil Conditions

## Gentlemen:

We acknowledge receipt of your letter dated October 27, 1981 concerning this subject.

As a matter of record, I wish to point out that on Monday, October 26, 1981, Slurry Panel No. 117 was poured and excavation began on the final Slurry Panel on the east side No. 113.

On Tuesday, October 27, 1981, excavation was completed by 10:00 a.m. and the concrete was poured and completed by about noon. As you are aware, all excavated slurry matieral has been stockpiled on site and rehandled so that this portion of the work would not be delayed. As we have previously discussed, all additional costs for stockpiling, rehandling, and extra disposal will be requested for payment as extra work.

We wish to remind the Authority that should this material be classified as hazardous, special or solid waste by the Mass. D.E.Q.E., the time to arrange a disposal site may be substantial. We have been awaiting test results of this material from your consultants for over a month. This delay is pushing more of our work into the more costly winter months and thereby further compounding the problem.

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Please continue to expedite these results as much as possible so as to minimize this delay and its cost impact on this project.

Very truly yours,

PERINI CORPORATION

Garry P Balboni Administrative Manager

GPB/dea

cc: F.M. Keville

J.D. Dyer

H. Haywood

I.R. Huie

D.C. Malone C.J. McDermott

J.W. Bertonazzi

J.E. Mullin

File



> November 16, 1981 A-601-747-131

Massachusetts Bay Transportation Authority 58 Day Street Somerville, MA 02145

Attention: Mr. John Carey

RE:

Perini Corporation - Job 747 Alewife Station/Garage/Tunnel

Cambridge, MA 02140 MBTA Contract 091-601

Subject:

Notice of Excavation and Stockpiling Contaminated Material

## Gentlemen:

Confirming prior verbal conversations between Perini and the MBTA, we have begun to excavate the Tunnel and the Contaminated Material and temporarily stockpile this material on site. We shall perform this excavation, stockpiling, and rehandling until a final determination is made by the Mass. Department of Environmental Quality Engineering and the Authority as to its contamination classification.

We expect additional compensation for the stockpiling, rehandling, reloading and additional transportation cost of this material.

Very truly yours,

PERINI CORPORATION

Garry P. Balboni

Administrative Manager

GPB/dea

cc: F.M. Keville

J.J. Dyer

H. Haywood

D.C. Malone

C.J. McDermott

J.W. Bertonazzi

J.E. Mullin

File